

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

Risk 3/11
Vertical
exte
RECEIVED
NOV 14 1999
OIL CON. DIV.
DIST. 3/11

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Burlington)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Hubbard #1A			
Location:	Unit <u>I</u>	Sec <u>22</u>	T <u>32 N</u> R <u>12 W</u> County <u>San Juan</u>
Pit Type:	Separator ☐	Dehydrator ☒	Other _____
Land Type:	BLM ☐	State ☐	Fee ☒ Other _____
Pit Location:	Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '		
(Attach diagram)	Reference:	wellhead ☒	other _____
	Footage from reference: <u>75</u> '		
	Direction from reference:	<u>85</u> Degrees ☒ East ☐ West	North ☒ South ☐
of			
Depth to Ground Water:	Less than 50 feet (20 points)	50 feet to 99 feet (10 points)	Greater than 100 feet (0 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water)			<u>0</u>
Wellhead Protection Area:	Yes (20 points)	No (0 points)	
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)			<u>0</u>
Distance to Surface Water:	Less than 200 feet (20 points)	200 feet to 1,000 feet (10 points)	Greater than 1,000 feet (0 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Hubbard #1A

Date Remediation Started: 04/15/1999

Date Completed: 04/15/1999

Remediation Method: Excavation ☒ Approx. Cubic Yard 266

(Check all appropriate sections)

Landfarmed ☒ Amount Landfarmed (cubic yds) 266

Other _____

Remediation Location: Onsite ☒ Offsite _____

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location: _____

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 20' X 18' X 20' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

*** Vertical extent drilling conducted to 31'. Bottom hole results below OCD guidelines as indicated on attached lab analysis.

Ground Water Encountered: No ☒ Yes ☐ Depth _____

Final Pit Closure Sampling:

Sample Location 5 pt. composite - bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 20'

Sample date 04/15/1999

Sample time 2:25:00 PM

Sample Results

Benzene (ppm) < 0.5

Total BTEX (ppm) 80 ***

Field headspace (ppm) _____

TPH (ppm) 230.00 Method 8015B

Vertical Extent (ft) 31'

Risk Analysis form attached Yes ☐ No ☒

Ground Water Sample:

Yes ☐No ☒

(If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 28, 1999

SIGNATURE

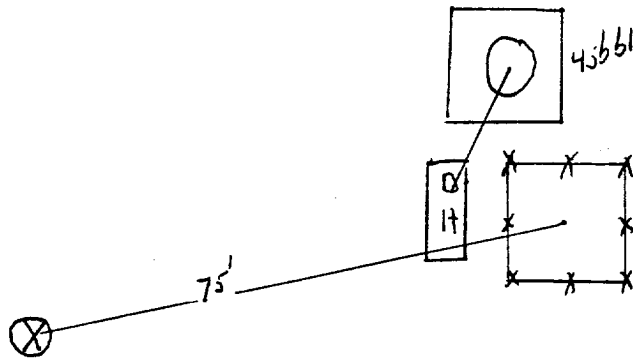
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Hubbard #1A
Burlington
Sec. 22, 32 N, 12 W, I

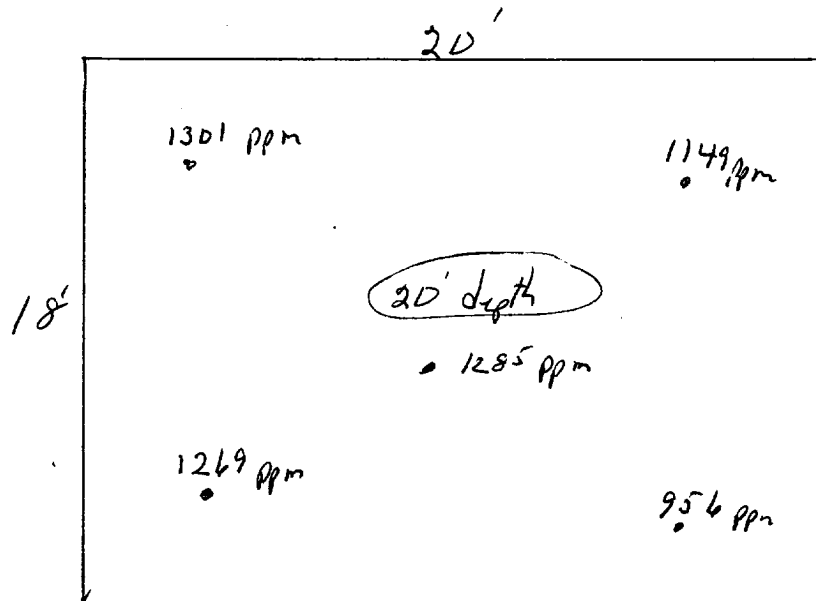
4/15/99



site diagram:



End of excavation:



heated
Field headspace: 4.2 ppm (walls)

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 29-Apr-99

CLIENT: PNM - Public Service Company of NM

Project: Hubbard #1A

Lab Order: 9904030

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Apr-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Hubbard #1A
Work Order:	9904030	Client Sample ID:	9904151425; Bottom @ 20ft - 5 pt. Composite
Lab ID:	9904030-01A	Matrix:	SOIL
Project:	Hubbard #1A	Collection Date:	4/15/99 2:25:00 PM
		COC Record:	7565

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	230	25		mg/Kg	1	4/27/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HR
Benzene	ND	500		µg/Kg	500	4/22/99
Toluene	7400	1000		µg/Kg	500	4/22/99
Ethylbenzene	5600	500		µg/Kg	500	4/22/99
m,p-Xylene	56000	1000		µg/Kg	500	4/22/99
o-Xylene	11000	500		µg/Kg	500	4/22/99

80000
80 ppm

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Apr-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Hubbard #1A
Work Order:	9904030	Client Sample ID:	9904151430; Walls @ 15ft
Lab ID:	9904030-02A	Matrix:	SOIL
Project:	Hubbard #1A	Collection Date:	4/15/99 2:30:00 PM
		COC Record:	7565

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	4/16/99

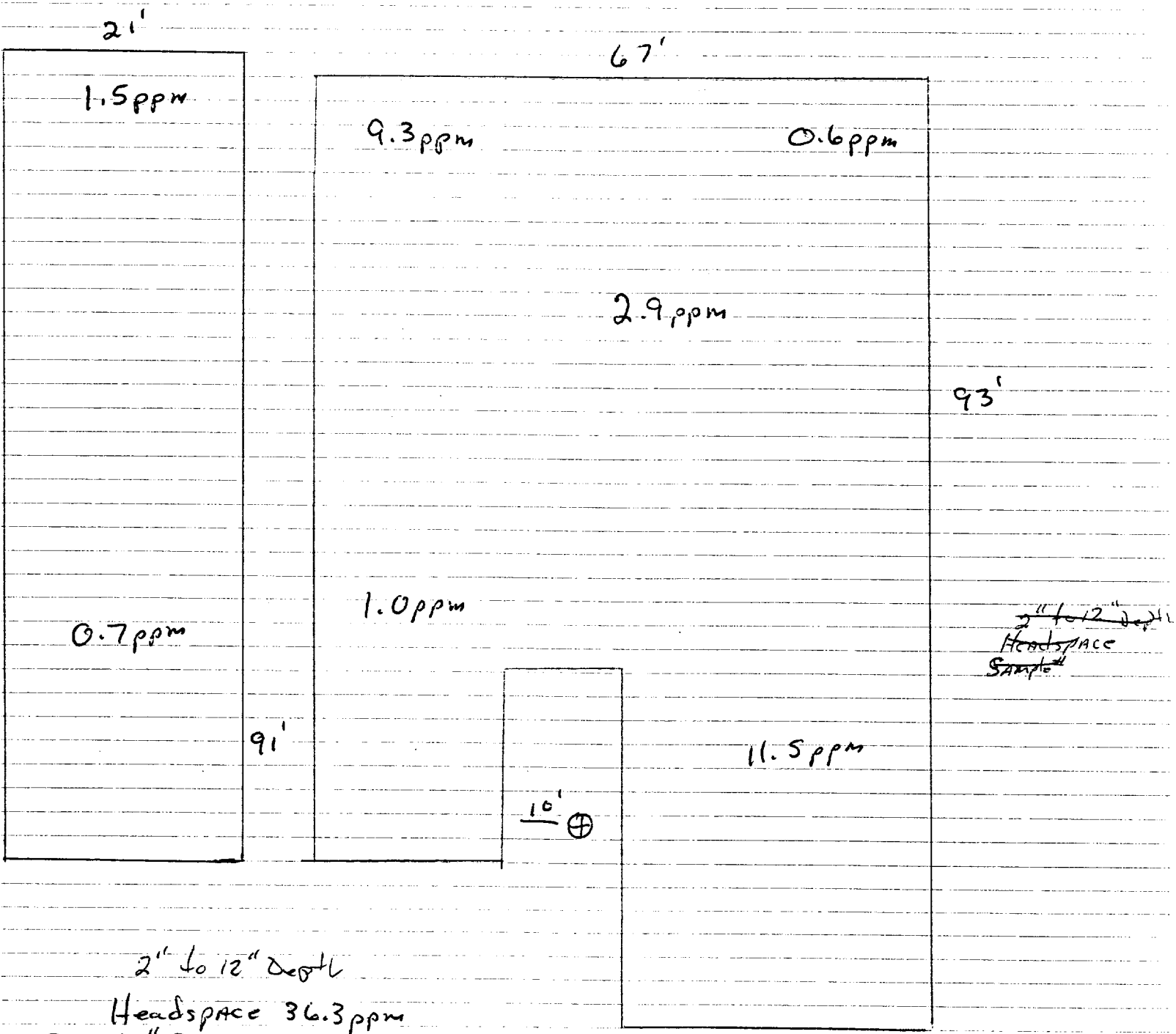
Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

SEC-22 - T-32N 12W 46E
Burlington

LANDFARM DRAWING

on location App 266 cu yds



2" to 12" Depth
Headspace 36.3 ppm
Sample # 9905261115

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 02-Jun-99

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation Landfarms
Lab Order: 9905088

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Roy

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Hubbard #1A LF
Work Order:	9905088	Client Sample ID:	9905261115; 7pt. Comp
Lab ID:	9905088-03A	Matrix:	SOIL
Project:	PNM Pit Remediation Landfarms	Collection Date:	5/26/99 11:15:00 AM
		COC Record:	7712

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	5/27/99

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 29-Sep-99

CLIENT: PNM - Public Service Company of NM

Project: Hubbard #1A

Lab Order: 9909040

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Sep-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Hubbard #1A
Work Order:	9909040	Client Sample ID:	9909130950 @ 31 ft.
Lab ID:	9909040-01A	Matrix:	SOIL
Project:	Hubbard #1A	Collection Date:	09/13/1999 9:50:00 AM
		COC Record:	7755

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	09/24/1999
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	1		µg/Kg	1	09/15/1999
Toluene	ND	2		µg/Kg	1	09/15/1999
Ethylbenzene	ND	1		µg/Kg	1	09/15/1999
m,p-Xylene	ND	2		µg/Kg	1	09/15/1999
o-Xylene	ND	1		µg/Kg	1	09/15/1999

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

RECORD OF SUBSURFACE EXPLORAT

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole #

Well #

Page

1 of 1

Project Name

PNM VERTICAL EXTENT

Project Number

62800047

Phase

6001

Project Location

HUBBARD #1A

Elevation

6210'

Borehole Location

T 32N R 12W S 22 E

GWL Depth

NONE ENCOUNTERED

Logged By

C. CULLICOTT

Drilled By

R. PADILLA & D. PADILLA

Date/Time Started

9/13/99 9:10 am

Date/Time Completed

9/13/99 10:00 am

Well Logged By

C. CULLICOTT

Personnel On-Site

R. PADILLA & D. PADILLA

Contractors On-Site

R.

Client Personnel On-Site

BARRY COOK

Drilling Method

AUGER

Air Monitoring Method

PID

Depth (Feet)	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU			Drilling Conditions & Blow Counts
						BZ	BH	S	
0			0-20' CLEAN BACKFILL						
5									
10									
15									
20	① 20'-21 1/2'		① GOOD RECOVERY, orange/ DAMP MOTTLED GRAY SILTY CLAY w/ MINOR SAND CLEAN.						① 6 BLOWS SS 0.0 ppm HS 2.4 ppm
25	② 25'-27'		② AS ABOVE, DAMP, MOTTLED GRAY (ORANGE SILTY CLAY w/ MINOR SAND @ TOP OF SPLIT SPOON, SANDIER TOWARDS BOTTOM. CLEAN						② 6 BLOWS SS 0.0 ppm HS 0.0 ppm
30	③ 30'-32'		③ PLASTIC BROWN CLAYEY SAND, CLEAN. LAB SAMPLE TAKEN. TD=30' NO CONTAMINATION DETECTED						③ 10 BLOWS SS 0.0 ppm HS 0.0 ppm 3.7 ppm (2 BAGS)
35									
40									

Comments:

SUNNY, BREEZY, COOL

Geologist Signature

Cathy Cullcott